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	Application No.	Applicant(s)	(RA)
Nation of Allowahility	10/706,622	ZHU ET AL.	( Ch,
Notice of Allowability	Examiner	Art Unit	
	Andy Huynh	2818	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not incluincation will be mailed in du	uded ue course. THIS
1. $igspace$ This communication is responsive to <u>the Amendment dated</u>	<u>d 03/07/05</u> .		
2. X The allowed claim(s) is/are <u>1-33</u> .			
3. $\boxtimes$ The drawings filed on <u>12 November 2003</u> are accepted by	the Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority una)</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Applicatio	n No	cation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the	requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			NOTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mus  (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the sheet of the shee	on's Patent Drawing Review  s Amendment / Comment or  84(c)) should be written on the header according to 37 CF	in the Office action of ne drawings in the front (not t R 1.121(d).	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>	FOR THE DEPOSIT OF BIC	DLOGICAL MATERIAL.	i. Note the
Attachment(s)  1.  Notice of References Cited (PTO-892)  2.  Notice of Draftperson's Patent Drawing Review (PTO-948)  3.  Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.  Interview St Paper No./ 7.  Examiner's 8.  Examiner's 9.  Other	formal Patent Application (Fummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for A - Cultury Comment Leaf Examine Tend Decamine	·
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In the Amendment dated March 07, 2005, the specification and claims 2, 21 and 33 are amended is acknowledged. Claims 1-33 are currently pending in this application.

Allowable Subject Matter

Claims 1-33 are allowed.

The following is an examiner's statement of reason for allowance:

Claims 1-11 are allowable over the prior art of record because the prior art of record does not teach or render obvious a magnetic memory element, comprising a plurality of stacked, closed-ended layers defining an opening therethrough, wherein the plurality of layers includes a storage magnetic layer having two conjugate segments with opposing magnetic helicities, and in combination with all other features as recited in independent claim 1.

Claims 12-16 are allowable over the prior art of record because the prior art of record does not teach or render obvious a memory cell comprises a storage magnetic layer having two conjugate segments with opposing magnetic helicities, and in combination with all other features as recited in independent claim 12.

Claims 17-21 are allowable over the prior art of record because the prior art of record does not teach or render obvious a memory device, comprising a plurality of magnetic memory elements, each magnetic memory element including a plurality of stacked, closed-ended layers defining an opening therethrough, wherein the plurality of layers includes a storage magnetic layer having two conjugate segments with opposing magnetic helicities, and in combination with all other features as recited in independent claim 17.

Claims 22-29 are allowable over the prior art of record because the prior art of record does not teach or render obvious a memory device comprising a plurality of memory cells, each memory cell including a magnetic memory element including a plurality of stacked, closed-ended layers defining an opening therethrough, wherein the plurality of layers includes a storage magnetic layer having two conjugate segments with opposing magnetic helicities, and in combination with all other features as recited in independent claim 22.

Claims 30-33 are allowable over the prior art of record because the prior art of record does not teach or render obvious a computing device wherein the plurality of layers includes a storage magnetic layer having two conjugate segments with opposing magnetic helicities, and in combination with all other features as recited in independent claim 30.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy Huynh whose telephone number is (571) 272-1781. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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04/07/05

Andy Huynh

andy Muy

Patent Examiner